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OXYGEN-DETECTING MATERIAL

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ABSTRACT

PURPOSE: To obtain an oxygen-detecting material which enables detection of oxygen for presence or absence in a packaging body from a change in the color thereof by printing, depositing or impregnating a composition containing 2 or 4-polyvinylpyridine metal complex on or in a base material.

CONSTITUTION: 2 or 4-Polyvinylpyridine copper complex, 2 or 4-polyvinylpyridine cobalt complex, etc. or those deposited on a carrier such as titanium oxide, calcium carbonate, clay, kaolin, aluminum hydroxide or silicon dioxide are used as 2 or 4-polyvinylpyridine metal complex. An ink composition containing the complex is printed, coated or impregnated on or in a base material consisting of paper, non-woven fabric, plastics or the like. The color of the 2 or 4-polyvinylpyridine metal complex changes according to the adsorption and desorption of oxygen with a change in the partial pressure of oxygen.

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Oxygen presence indicator - consists of cobalt complex of bis (salicylaldehyde) alkylenediimine and/or derivs.

Patent Assignee: TOYO INK MFG CO (TOXW)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
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Priority Applications (No Type Date): JP 83179321 A 19830929

Patent Details:

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